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Supplemental Response after Final (mailed 11/19/02, Paper No. 15) faxed September 4, 2003

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## Amendments to the Claims

Please amend claim 1 as indicated below in the listing of claims.

## Listing of claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently amended) A chimeric protein comprising:

a fusion of at least two functional protein units, wherein each functional protein unit comprises the dimerization domain of a member of the steroid/thyroid hormone nuclear receptor superfamily;

wherein said at least two functional protein units are <u>covalently</u> fused into a single polypeptide molecule by (i) fusion of said protein units, or (ii) use of a linker interposed between said protein units; and

wherein said chimeric protein is capable of at least one function selected from the group consisting of DNA binding, ligand binding, transactivation and dimerization.

- 2. (Previously presented) The chimeric protein according to claim 1 wherein said chimeric protein forms an endodimer.
- 3. (Original) The chimeric protein according to claim 1 wherein each protein unit comprises a ligand binding domain, an optional hinge domain, and an optional DNA binding domain.
- 4. (Previously presented) The chimeric protein according to claim 3 wherein said chimeric protein forms an endodimer.

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- 5. (Previously presented) The chimeric protein according to claim 1 wherein at least one dimerization domain is non-mammalian.
- 6. (Previously presented) The chimeric protein according to claim 5 wherein the at least one dimerization domain is from an insect species.
- 7. (Original) The chimeric protein according to claim 1 wherein at least one functional protein unit comprises the dimerization domain of an ecdysone receptor.
- 8. (Previously presented) The chimeric protein according to claim 7 wherein the dimerization domain of an ecdysone receptor comprises the dimerization domain of a Drosophila ecdysone receptor.
- 9. (Previously presented) The chimeric protein according to claim 7 wherein the dimerization domain of an ecdysone receptor comprises the dimerization domain of a Lepidoptera ecdysone receptor.
- 10. (Previously presented) The chimeric protein according to claim 7 wherein the dimerization domain of an ecdysone receptor comprises the dimerization domain of a Bombyx ecdysone receptor.
- 11. (Original) The chimeric protein according to claim 5 wherein at least one functional protein unit comprises the dimerization domain of the ultraspiracle protein.
  - 12. (Cancelled).
- 13. (Original) The chimeric protein according to claim 1 wherein at least one functional protein unit comprises the dimerization domain of the retinoid X receptor.

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- (Original) The chimeric protein according to claim 1 wherein the protein units 14. are independently selected from the group consisting of glucocorticoid receptors, mineralocorticoid receptors, estrogen receptors, progesterone receptors, androgen receptors, Vitamin D3 receptors, retinoic acid receptors, retinoid X receptors, peroxisome proliferatoractivated receptors, thyroid hormone receptors, and steroid and xenobiotic receptors, farnesoid X receptor, pregnenolone X receptor, liver X receptor, and BXR.
- (Original) The chimeric protein according to claim 1 wherein the linker contains 15. from about 5 to about 245 amino acids.
- (Original) The chimeric protein according to claim 15 wherein the linker contains 16. from about 53 to about 125 amino acids.
- (Previously presented) The chimeric protein according to claim 15 wherein the 17. linker comprises one or more amino acid residues selected from the group consisting of glycine, proline, serine, alanine and threonine.
- 18. (Previously presented) The chimeric protein according to claim 15 wherein the linker comprises the amino acid sequence of SEQ ID NO:15.
- (Original) The chimeric protein according to claim 3 wherein one or more protein 19. units further comprise a C-terminal domain.
- 20. (Original) The chimeric protein according to claim 3 wherein the DNA binding domains of one or more protein units comprise 66 to 68 amino acids, including 9 cysteines.
- (Original) The chimeric protein according to claim 3 wherein the hinge domain 21. of one or more protein units is the Bombyx hinge domain.

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22. (Original) The chimeric protein according to claim 1 wherein one or more protein units further comprise an activation domain.

23.-60. (Cancelled).